# " ORIGINAL VERSION"

## Roadway Cost for a Sub-Urban Section

Improvement Description	Units	Cost per Unit	3-LANE SUB URBAN SECTION Per Mile Cost	5-LANE SUB URBAN SECTION Per Mile Cost
Concrete Pavement (12 ft. lanes) + LEFT TURN LANES Sidewalk on one side ( 4" thick by 4'-0") Bike Trail one side Landscaping Trail Ped/Bike Signal Traffic Signal (1/4 +1 +1 +1 +1/4) Street Lighting Storm Sewer Water - Line Adjustments (\$3,000 per mile) Water - Hydrants Waste Water ( resetting of man holes & Service) Box Culvert Retaining Wall	Sq. Ft. Sq. Ft. per mile each each Lump sum Lump sum Lump sum Lump sum Sq. Ft.	\$3,000.00 \$55,620.00	\$1,214,400.00 \$84,480.00 \$277,200.00 \$50,000.00 \$50,000.00 \$437,500.00 \$84,000.00 \$250,000.00 \$3,000.00 \$55,620.00 \$2,500.00 \$176,500.00 \$2,760,200.00	
Potential Additional costs assoc. to Project Trail Grade Seperation Bridge ( 300', 4-lanes) L.E.S. Right - of - Way Acquisition ( 10' width acquisition increments) Wetlands-Flood plain-Native Praire-Endangered species-Cul. Res.	each each Lin. ft. per mile per mi. var.	\$375,000.00 \$1,500,000.00 \$75.00 \$26,400.00 \$153,122.00	\$375,000.00 \$1,500,000.00 \$396,000.00 \$26,400.00 \$153,122.00 \$2,450,522.00	

'Revised Roadway Cost'		3-LANE SECTION Cost per	5-LANE SECTION Cost per	3-LANE SUB URBAN SECTION	5-LANE URBAN SECTION	CONVERT FROM 3 TO 5 LANE
Improvement Description	Units	Unit	Unit	Per Mile Cost	Per Mile Cost	Per Mile Cost
Concrete Pavement (12 ft. lanes) + Turn Lanes	Sq. Ft.	\$5.00	\$5.00	\$1,214,400.00	\$1,969,320.00	\$950,400.00
Sidewalk on both sides (5" thick by 5'-0")	Sq. Ft.	\$5.25	\$5.25	\$277,200.00	\$277,200.00	· · · <u></u>
Landscaping (\$50,000 per mile)	per mile	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	
Traffic Signal (1/4 + 1 + 0 + 1 + 1/4) (2.5 per mile)	each	\$125,000.00	\$125,000.00	\$312,500.00	\$312,500.00	
Storm Sewer (3 & 5 Lane at \$250,000 avg.)	Lump sum		\$250,000.00	\$250,000.00	\$250,000.00	
Box Culvert (avg. 1 per mile at \$75,000)	each	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	
Retaining Wall (2,500 Sq. Ft.)	Sq. Ft.	\$17.65	\$17.65	\$44,125.00	\$44,125.00	
(-)	·			\$2,223,225.00	\$2,978,145.00	\$950,400.00
Potential Additional costs assoc. to Project						
Trail Grade Separation	each	\$375,000.00	\$375,000.00	\$375,000.00		
Bridge ( 300°, 4-lanes)	each		\$1,500,000.00	\$1,500,000.00		
L.E.S.	Lin. ft.	\$75.00	\$75.00	\$396,000.00		
Right - of - Way Acquisition ( 10' width acquisition increments)	per mile	\$26,400.00	\$26,400.00	\$26,400.00		
Wetlands-Flood plain-Native Praire-Endangered species-Cul. Res.	per mi, var,	*	\$153,122.00	\$153,122.00		
Transfer of the plant transfer of the plant	<b>F</b>	•		\$2,450,522.00		
Bike Trail (add 5'w x 5")		\$138,600.00	\$138,600.00	\$138,600.00		
		,	Total =	\$2,589,122.00		
Roadway Cost Adjustments for the above Suburban Section						
				3-LANE SECTION	5-LANE SECTION	<del>-</del>
Concrete Pavement costs for 5-lane Urban - Removed cost for two left Sidewalks - Increase from one side to both sides (changed unit cost from \$4.00 Sq. Ft. to \$5.25 Sq. Ft.) (Changed thickness from 4" TO 5") (changed width from 4'-0" to 5'-0")	t turn lanes af	t the half mile po	int.	\$192,720.00	(\$37,080.00 \$192,720.00	•
Bike Trail - removed cost.				(\$277,200.00)	(\$277,200.00	)
Trail/Ped Bike Signal - removed cost.				(\$50,000.00)	(\$50,000.00	)
Traffic Signals - removed cost for a traffic signal at the half mile point.				(\$125,000.00)	(\$125,000.00	)
Street Lighting - removed cost for street lighting.				(\$84,000.00)	(\$84,000.00	)
Water - Line Adjustments - removed cost.				(\$3,000.00)	(\$3,000.00	)
Water - Hydrants - removed cost.				(\$55,620.00)	(\$55,620.00	)
Waste Water (resetting of manholes & Service) removed cost.				(\$2,500.00)	(\$2,500.00	•
Retaining Wall - reduced cost by 75%.				(\$132,375.00)	(\$132,375.00	<u> </u>
Note: Right-of-Way acquisition assumption for developed area 100% and outlying areas 25%	·			(\$536,975.00)	(\$574,055.00	)
				From Original	To Revised	Difference
		lon cost adjustm		\$2,760,200.00	\$2,223,225.00	
	5-lane secti	ion cost adjustm	ent =	\$3,552,200.00	\$2,978,145.00	(\$574,055.00
MEIL ECCEEDOON OTHEROGADIMAY 2 OD 5 SHE HERAN COST AD HISTMENT 021203 123						

## **ORIGINAL CATEGORY 5**

#### CITY'S TOTAL ROADWAY NETWORK USES AND SOURCES

02/11/2003

(\$350,614,000)

#### 1ST & 2ND 6 YEAR PERIOD and 12 Year Total

(NO INFLATION)

	(NO INFLAT	ION)	
USES	1st 6 Years	2nd 6 Years	Total
	Period 1	Period 2	12 Year
Activity Elements	2004-2009	2010-2015	2004-2015
Project Costs			
Antelope Valley Projects	\$65,760,000	\$72,650,000	\$138,410,000
South Beltway Project	\$24,120,000	<b>\$</b> 0	\$24,120,000
East Beltway Project	\$0	\$1,221,000	\$1,221,000
Street Operations and Maintenance	\$44,379,000	\$50,569,000	\$94,948,00
Arterial and Residential Rehabilitation	\$38,039,000	\$43,345,000	\$81,384,00
Committed Projects as of Sept 1, 2002	\$29,890,000	\$0	\$29,890,00
Remaining Baseline Projects	\$400,193,000	\$83,094,000	\$483,287,00
Total (rounded to nearest thousands)	\$602,381,000	\$250,879,000	\$853,260,000
		TOTAL USE NEEDS =	\$853,260,00
	(NO INFLAT	·	
	1st 6 Years	2nd 6 Years	Total
SOURCES	Period 1	Period 2	12 Year
Activity Elements	2004-2009	2010-2015	2004-2015
Funding Source		•	
CASH BALANCE as of Sept 1, 2002	\$24,000,000	\$0	\$24,000,00
(PB) Funds	\$3,000,000	\$3,000,000	\$6,000,00
(PC) Funds	\$24,000,000	\$24,000,000	\$48,000,00
(TMT) Funds	\$8,000,000	\$3,000,000	\$11,000,00
(RTSD) Funds	\$9,000,000	\$9,000,000	\$18,000,00
(SO) Funds	\$100,296,074	\$119,410,369	\$219,706,44
(WC) Funds	\$21,699,936	\$24,437,653	\$46,137,58
(WR) Funds	\$30,407,666	\$34,243,971	\$64,651,63
(IF) Funds	\$14,480,000	\$26,670,000	\$41,150,00
STATE 80% MATCH ( Sun Valley Proj.)	\$0	\$12,000,000	\$12,000,00
OTHER (CO, BR)	\$6,000,000	\$6,000,000	\$12,000,00
Total (rounded to nearest thousands)	\$240,884,000	\$261,762,000	\$502,648,00
		TOTAL AVAILABLE SOURCE =	\$502,646,00
Period 1, 2 & and 12 year Total GAP	(\$361,497,000)	\$10,883,000	(\$350,614,00
			*****

TOTAL SOURCE GAP =

# CATEGORY 5 (Only Cost Modified)

### CITY'S TOTAL ROADWAY NETWORK USES AND SOURCES

02/11/2003

#### 1ST & 2ND 6 YEAR PERIOD and 12 Year Total

(NO INFLATION)

	(110 1111 1111 111	,	
JSES	1st 6 Years	2nd 6 Years	Total
	Period 1	Period 2	12 Year
activity Elements	2004-2009	2010-2015	2004-2015
Project Costs			
Antelope Valley Projects	\$65,760,000	\$72,650,000	\$138,410,000
South Beltway Project	\$24,120,000	<b>\$0</b>	\$24,120,00
East Beltway Project	<b>\$</b> 0	\$1,221,000	\$1,221,00
Street Operations and Maintenance	\$44,379,000	\$50,569,000	\$94,948,00
Arterial and Residential Rehabilitation	\$38,039,000	\$43,345,000	\$81,384,00
Committed Projects as of Sept 1, 2002	\$29,890,000	\$0	\$29,890,00
Remaining Baseline Projects	\$366,296,000	\$77,804,000	\$444,100,00
Total (rounded to nearest thousands)	\$568,484,000	\$245,589,000	\$814,073,00
		TOTAL USE NEEDS =	\$814,073,00
	(NO INFLAT		Total
	1st 6 Years	2nd 6 Years	
SOURCES	Period 1	Period 2	12 Year
Activity Elements	2004-2009	2010-2015	2004-2015
Funding Source			
CASH BALANCE as of Sept 1, 2002	\$24,000,000	\$0	\$24,000,00
(PB) Funds	\$3,000,000	\$3,000,000	\$6,000,00
(PC) Funds	\$24,000,000	\$24,000,000	\$48,000,00
(TMT) Funds	\$8,000,000	\$3,000,000	\$11,000,00
(RTSD) Funds	\$9,000,000	\$9,000,000	\$18,000,00
(SO) Funds	\$100,296,074	\$119,410,369	\$219,706,44
(WC) Funds	\$21,699,936	\$24,437,653	\$46,137,58
(WR) Funds	\$30,407,666	\$34,243,971	\$64,651,63
(IF) Funds	\$14,480,000	\$26,670,000	\$41,150,00
STATE 80% MATCH ( Sun Valley Proj.)	·	\$12,000,000	\$12,000,0
OTHER (CO, BR)	\$6,000,000	\$6,000,000	\$12,000,0
Total (rounded to nearest thousands)	\$240,884,000	\$261,762,000	\$502,646,00
		TOTAL AVAILABLE SOURCE =	\$502,646,0
Period 1, 2 & and 12 year Total GAP	(\$327,600,000)	\$16,173,000	(\$311,427,0
		TOTAL SOURCE GAP =	(\$311,427,0

# CATEGORY 5 (Cost & Geometry Mod)

### CITY'S TOTAL ROADWAY NETWORK USES AND SOURCES

02/11/2003

#### 1ST & 2ND 6 YEAR PERIOD and 12 Year Total

(NO INFLATION)

	(NO INFLAT	ION)	
USES	1st 6 Years	2nd 6 Years	Total
	Period 1	Period 2	12 Year
Activity Elements	2004-2009	2010-2015	2004-2015
Project Costs			
Antelope Valley Projects	\$65,760,000	\$72,650,000	\$138,410,000
South Beltway Project	\$24,120,000	\$0	\$24,120,000
East Beltway Project	\$0	\$1,221,000	\$1,221,00
Street Operations and Maintenance	\$44,379,000	\$50,569,000	\$94,948,00
Arterial and Residential Rehabilitation	\$38,039,000	\$43,345,000	\$81,384,00
Committed Projects as of Sept 1, 2002	\$29,890,000	\$0	\$29,890,00
Remaining Baseline Projects	\$350,423,000	\$72,119,000	\$422,542,00
Total (rounded to nearest thousands)	\$552,611,000	\$239,904,000	\$792,515,000
		TOTAL USE NÉÉDS =	\$792,515,00
	(NO INFLAT	(ION)	
	1st 6 Years	2nd 6 Years	Total
SOURCES	Period 1	Period 2	12 Year
Activity Elements	2004-2009	2010-2015	2004-2015
Funding Source	•	<u> </u>	
•			
CASH BALANCE as of Sept 1, 2002	\$24,000,000	<b>\$0</b>	\$24,000,00
(PB) Funds	\$3,000,000	\$3,000,000	\$6,000,00
(PC) Funds	\$24,000,000	\$24,000,000	\$48,000,00
(TMT) Funds	\$8,000,000	\$3,000,000	\$11,000,00
(RTSD) Funds	\$9,000,000	\$9,000,000	\$18,000,00
(SO) Funds	<b>\$</b> 100,296,074	\$119,410,369	\$219,706,44
(WC) Funds	\$21,699,936	\$24,437,653	\$46,137,58
(WR) Funds	\$30,407,666	\$34,243,971	<b>\$</b> 64,651,63
(IF) Funds	\$14,480,000	\$26,670,000	\$41,150,00
STATE 80% MATCH ( Sun Valley Proj.)	\$0	\$12,000,000	\$12,000,00
OTHER (CO, BR)	\$6,000,000	\$6,000,000	\$12,000,00
Total (rounded to nearest thousands)	\$240,884,000	\$261,762,000	\$502,646,00
		TOTAL AVAILABLE SOURCE =	\$502,646,00
Period 1, 2 & and 12 year Total GAP	(\$311,727,000)	\$21,858,000	(\$289,869,00
		TOTAL SOURCE GAP =	(\$289,869,00

## CATEGORY 5, (Cost, Geometry Mods. and Deferred Projects)

CITY'S TOTAL ROADWAY NETWORK USES AND SOURCES

02/11/2003

02/11/2003

	(NO INFLATION)			Remaining
USES	1st 6 Years	2nd 6 Years	Total	13 years
	Period 1	Period 2	12 Year	of 25 years
Activity Elements	2004-2009	2010-2015	2004-2015	2016-2028
Project Costs		••••		
Antelope Valley Projects	\$65,760,000	\$72,650,000	\$138,410,000	\$41,670,000
South Beltway Project	\$24,120,000	\$0	\$24,120,000	\$0
East Beltway Project	\$0	\$1,221,000	\$1,221,000	\$25,240,000
Street Operations and Maintenance	\$44,379,000	\$50,569,000	\$94,948,000	\$135,082,000
Arterial and Residential Rehabilitation	\$38,039,000	\$43,345,000	\$81,384,000	\$115,784,000
Committed Projects as of Sept 1, 2002	\$29,890,000	\$0	\$29,890,000	\$0
Remaining Baseline Projects	\$261,947,000	\$72,119,000	\$334,066,000	\$363,623,000
Total (rounded to nearest thousands)	<b>\$</b> 464,135,000	\$239,904,000	\$704,039,000	\$681,399,000
		TOTAL USE NEEDS =	\$704,039,000	\$1,385,438,000
	(NO INFLAT	ION)		Remaining
	1st 6 Years	2nd 6 Years	Total	13 years
SOURCES	Period 1	Period 2	12 Year	of 25 years
Activity Elements	2004-2009	2010-2015	2004-2015	2016-2028
Funding Source				
CASH BALANCE as of Sept 1, 2002	\$24,000,000	\$0	\$24,000,000	\$0
(PB) Funds	\$3,000,000	\$3,000,000	\$6,000,000	\$8,500,000
(PC) Funds	\$24,000,000	\$24,000,000	\$48,000,000	\$52,000,000
(TMT) Funds	\$8,000,000	\$3,000,000	\$11,000,000	\$6,500,000
(RTSD) Funds	\$9,000,000	\$9,000,000	\$18,000,000	\$19,500,000
(SO) Funds	\$100,296,074	\$119,410,369	\$219,706,444	\$342,622,462
(WC) Funds	\$21,699,936	\$24,437,653	\$46,137,589	\$64,046,643
(WR) Funds	\$30,407,666	\$34,243,971	\$64,651,637	\$89,747,21
(IF) Funds	\$14,480,000	\$26,670,000	\$41,150,000	\$66,950,000
STATE 80% MATCH ( Sun Valley Proj.	) \$0	\$12,000,000	\$12,000,000	\$10,000,000
OTHER (CO, BR)	\$6,000,000	\$5,000,000	\$12,000,000	\$13,000,000
Total (rounded to nearest thousands)	\$240,884,000	\$261,762,000	\$502,646,000	\$660,866,000
		TOTAL AVAILABLE SOURCE =	\$502,646,000	\$1,163,512,000
Period 1, 2 & and 12 year Total GAP	(\$223,251,000)	\$21,858,000	(\$201,393,000)	(\$20,533,000
		TOTAL SOURCE GAP =	(\$201,393,000)	(\$221,926,000

## CATEGORY 5, (Cost, Geometry Mods., Deferred Projects and Conversions)

### CITY'S TOTAL ROADWAY NETWORK USES AND SOURCES

(\$223,251,000)

Period 1, 2 & and 12 year Total GAP

CATEGORY 6 ADJ SEG 021203 123

02/12/2003

(\$201,393,000)

(\$201,393,000)

02/12/2003

(\$60,331,000)

(\$261,724,000)

	(NO INFLAT	ION)		Remaining
JSES	•	2nd 6 Years	Total	13 years
SES	1st 6 Years Period 1	Period 2	12 Year	of 25 years
otivity Floropta	2004-2009	2010-2015	2004-2015	2016-2028
ctivity Elements Project Costs	2004-2000	2010 2010		
Antelope Valley Projects	\$65,760,000	\$72,650,000	\$138,410,000	\$41,670,0
South Beltway Project	\$24,120,000	\$0	\$24,120,000	
East Beltway Project	<b>\$</b> 0	\$1,221,000	\$1,221,000	\$25,240,0
Street Operations and Maintenance	\$44,379,000	\$50,569,000	\$94,948,000	\$135,082,0
Arterial and Residential Rehabilitation	\$38,039,000	\$43,345,000	\$81,384,000	\$115,784,0
Committed Projects as of Sept 1, 2002	\$29,890,000	<b>\$0</b>	\$29,890,000	
Remaining Baseline Projects	\$261,947,000	\$72,119,000	\$334,066,000	\$403,421,0
Total (rounded to nearest thousands)	\$464,135,000	\$239,904,000	\$704,039,000	\$721,197,0
		TOTAL USE NEEDS ≠	\$704,039,000	\$1,425,236,0
	(NO INFLAT	·	Total	Remaining 13 years
	1st 6 Years	2nd 6 Years		of 25 years
SOURCES	Period 1	Period 2	12 Year 2004-2015	2016-2028
Activity Elements	2004-2009	2010-2015	2004-2010	2010-2020
Funding Source				
CASH BALANCE as of Sept 1, 2002	\$24,000,000	\$0	\$24,000,000	
(PB) Funds	\$3,000,000	\$3,000,000	\$6,000,000	
(PC) Funds	CO 1 000 000			\$6,500,
(FC) Funds	\$24,000,000	\$24,000,000	\$48,000,000	\$52,000,
(TMT) Funds	\$24,000,000 \$8.000.000	\$24,000,000 \$3,000,000	\$48,000,000 \$11,000,000	\$52,000, \$6,500,
, ,				\$52,000, \$6,500, \$19,500,
(TMT) Funds	\$8,000,000	\$3,000,000	\$11,000,000 \$18,000,000 \$219,706,444	\$52,000, \$6,500, \$19,500, \$342,622,
(TMT) Funds (RTSD) Funds	\$8,000,000 <b>\$9,000,00</b> 0	\$3,000,000 \$9,000,000 \$119,410,369 \$24,437,653	\$11,000,000 \$18,000,000 \$219,706,444 \$46,137,589	\$52,000, \$6,500, \$19,500, \$342,622, \$64,046,
(TMT) Funds (RTSD) Funds (SO) Funds	\$8,000,000 \$9,000,000 \$100,296,074	\$3,000,000 \$9,000,000 \$119,410,369 \$24,437,653 \$34,243,971	\$11,000,000 \$18,000,000 \$219,706,444 \$46,137,589 \$64,651,637	\$52,000, \$6,500, \$19,500, \$342,622, \$64,046, \$89,747,
(TMT) Funds (RTSD) Funds (SO) Funds (WC) Funds	\$8,000,000 \$9,000,000 \$100,296,074 \$21,699,936	\$3,000,000 \$9,000,000 \$119,410,369 \$24,437,653 \$34,243,971 \$26,670,000	\$11,000,000 \$18,000,000 \$219,706,444 \$46,137,589 \$64,651,637 \$41,150,000	\$52,000, \$6,500, \$19,500, \$342,622, \$64,046, \$89,747,
(TMT) Funds (RTSD) Funds (SO) Funds (WC) Funds (WR) Funds	\$2,000,000 \$9,000,000 \$100,296,074 \$21,699,936 \$30,407,666 \$14,480,000	\$3,000,000 \$9,000,000 \$119,410,369 \$24,437,653 \$34,243,971 \$26,670,000 \$12,000,000	\$11,000,000 \$18,000,000 \$219,706,444 \$46,137,589 \$64,651,637 \$41,150,000 \$12,000,000	\$52,000, \$6,500, \$19,500, \$342,622, \$64,046, \$89,747, \$66,950,
(TMT) Funds (RTSD) Funds (SO) Funds (WC) Funds (WR) Funds (IF) Funds	\$2,000,000 \$9,000,000 \$100,296,074 \$21,699,936 \$30,407,666 \$14,480,000	\$3,000,000 \$9,000,000 \$119,410,369 \$24,437,653 \$34,243,971 \$26,670,000	\$11,000,000 \$18,000,000 \$219,706,444 \$46,137,589 \$64,651,637 \$41,150,000	\$52,000, \$6,500, \$19,500, \$342,622, \$64,046, \$89,747, \$66,950,
(TMT) Funds (RTSD) Funds (SO) Funds (WC) Funds (WR) Funds (IF) Funds STATE 80% MATCH ( Sun Valley Proj.	\$2,000,000 \$9,000,000 \$100,296,074 \$21,699,936 \$30,407,666 \$14,480,000	\$3,000,000 \$9,000,000 \$119,410,369 \$24,437,653 \$34,243,971 \$26,670,000 \$12,000,000	\$11,000,000 \$18,000,000 \$219,706,444 \$46,137,589 \$64,651,637 \$41,150,000 \$12,000,000	\$6,500,1 \$52,000,1 \$6,500, \$19,500, \$342,622, \$64,046, \$89,747, \$66,950,
(TMT) Funds (RTSD) Funds (SO) Funds (WC) Funds (WR) Funds (IF) Funds STATE 80% MATCH ( Sun Valley Proj.)	\$8,000,000 \$9,000,000 \$100,296,074 \$21,699,936 \$30,407,666 \$14,480,000 \$0	\$3,000,000 \$9,000,000 \$119,410,369 \$24,437,653 \$34,243,971 \$26,670,000 \$12,000,000 \$6,000,000	\$11,000,000 \$18,000,000 \$219,706,444 \$46,137,589 \$64,651,637 \$41,150,000 \$12,000,000 \$12,000,000	\$52,000, \$6,500, \$19,500, \$342,622, \$64,046, \$89,747, \$66,950,

\$21,858,000

TOTAL SOURCE GAP =

### Other adjustments to Category 5 Roadway Network

# Roadways deferred from 1<sup>st</sup> 6-year period to beyond 12 years (in millions)

<b>.</b>	Project 84th Street - Highway 6 to "O" Street	Total Cost \$20
•	"O" Street - 72 <sup>nd</sup> Street to 98 <sup>th</sup> Street	\$9
•	Cornhusker Highway - I 180 to 14th Street	\$3
•	14th & Cornhusker Interchange	\$15 .
•	14th Street - Cornhusker to Military	\$6
•	Highway 2 - Van Dorn Street to Old Cheney Rd.	\$18
<b>&gt;</b>	Sun Valley Blvd Cornhusker to "O" Street	\$13
•	N. 1st Street - Superior Street to Cornhusker Hwy.	<b>\$</b> 6

#### Total Project Cost (includes ROW) = \$90 million

Note: These are deferred costs, not Saved costs.

\$90 million divided by 16 miles or roadway projects = \$6 million per mile. At 1.6 % inflation for year 2013, costs would be = \$9.6 million per mile.